



TOP SECRET//COMINT//NOFORN

Special Source Operations

*The Cryptologic Provider of
Intelligence from Global High-Capacity
Telecommunications Systems ♪*

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Today's Cable Program

Three Access Portfolios

Foreign

RAMPART-A (3rd Party)

WINDSTOP (2nd Party)

Corporate

BLARNEY - FISA

FAIRVIEW

STORMBREW

OAKSTAR

PRISM

FAA

Unilateral

RAMPART-I/X

RAMPART-T (ClanSIG)

MYSTIC

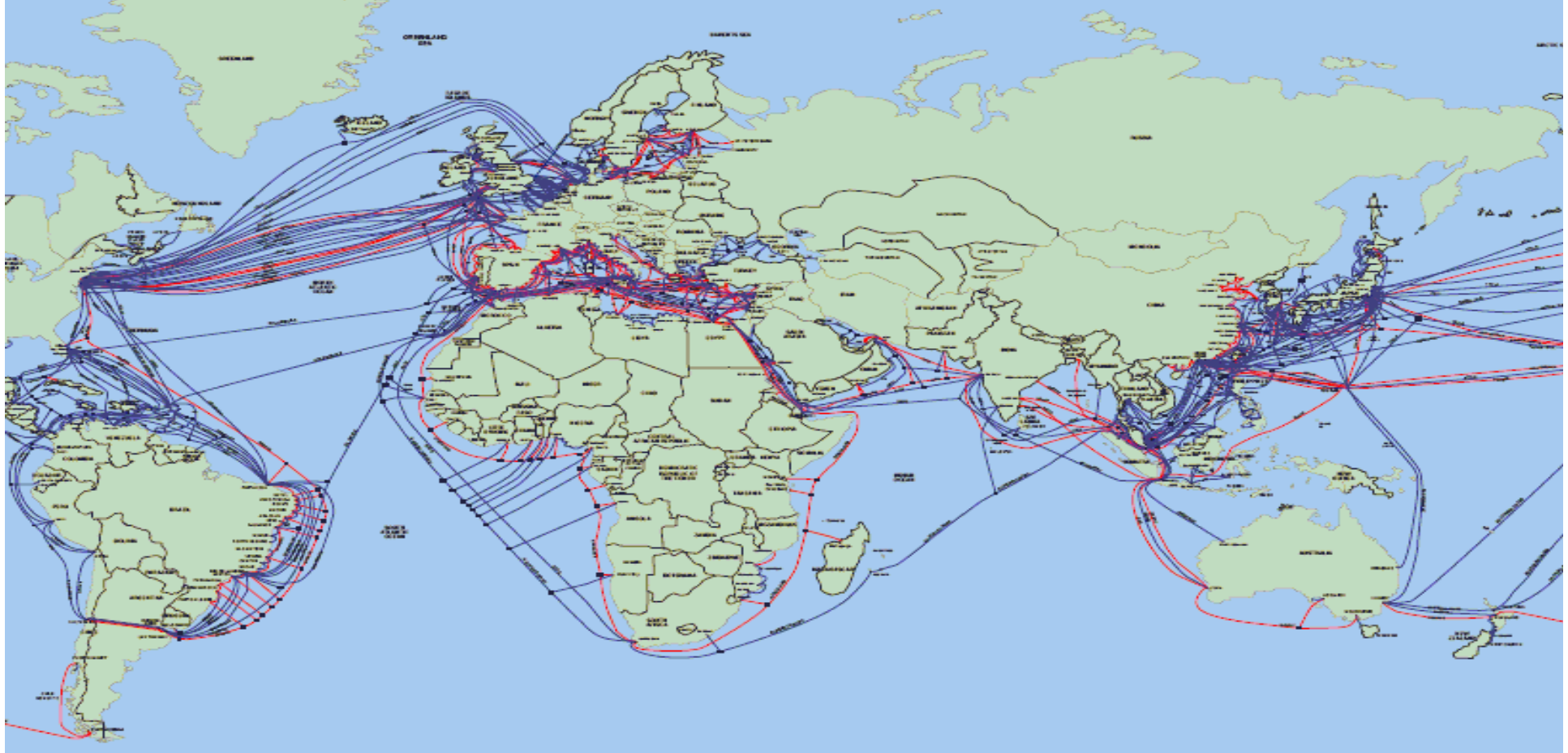
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Got Fiber??

WORLDWIDE UNDERSEA FIBEROPTIC ROUTES PLANNED AND IN PLACE



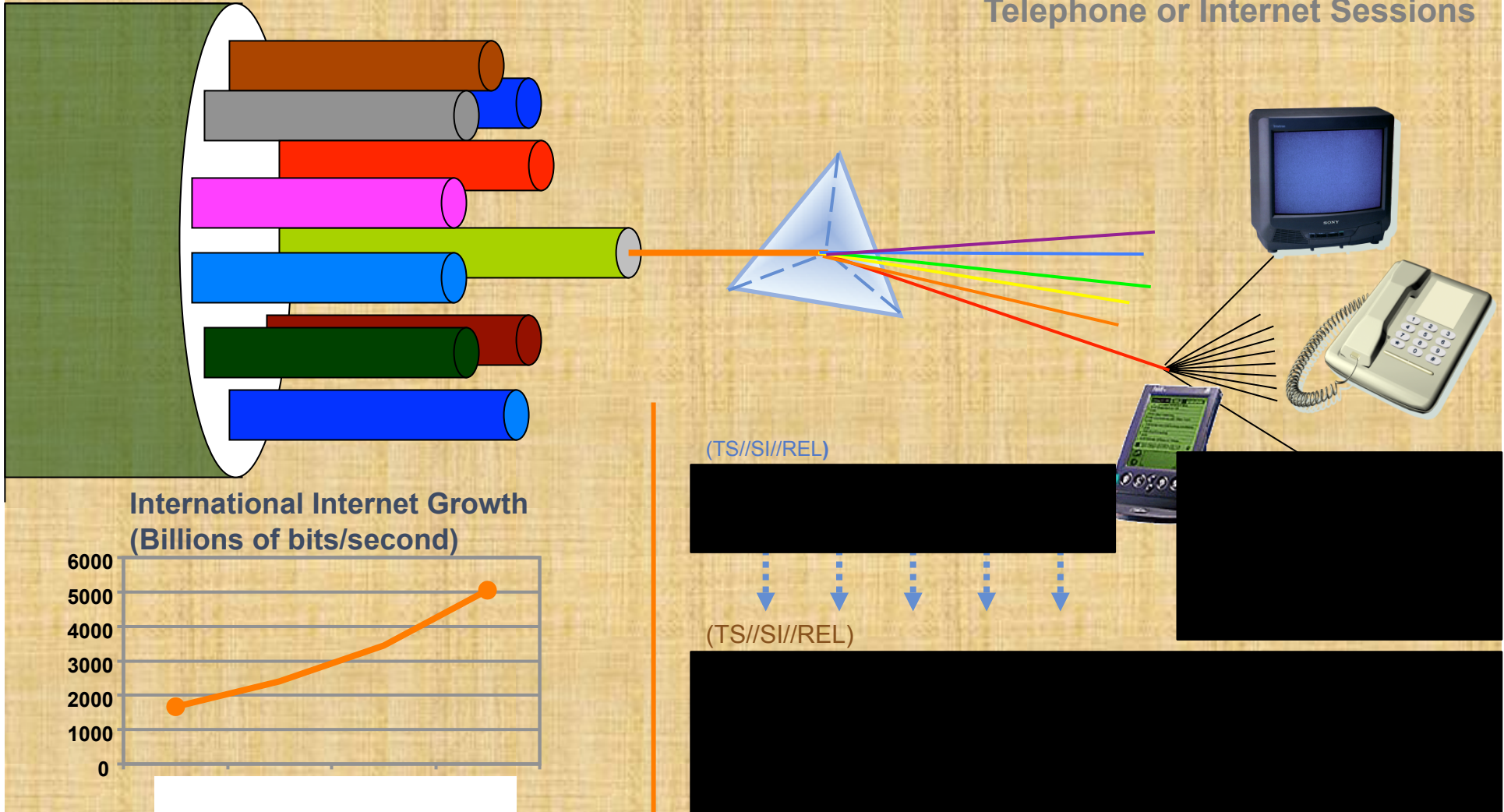
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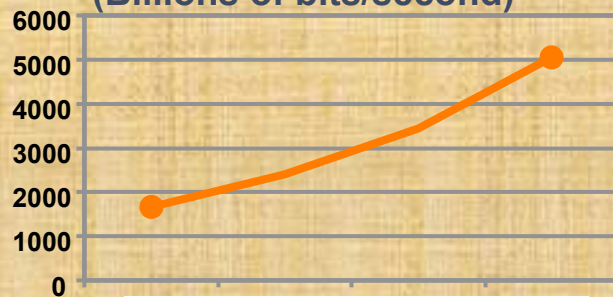
Incredible Challenges... TOP SECRET//COMINT//NOFORN

How To Find Target Communication on a Typical Fiber Optic Cable?

1 Cable **X** 12 Fibers **X** 64 wavelengths **X** 10 B bits/Sec = **100 Million**
Simultaneous
Telephone or Internet Sessions



International Internet Growth
(Billions of bits/second)



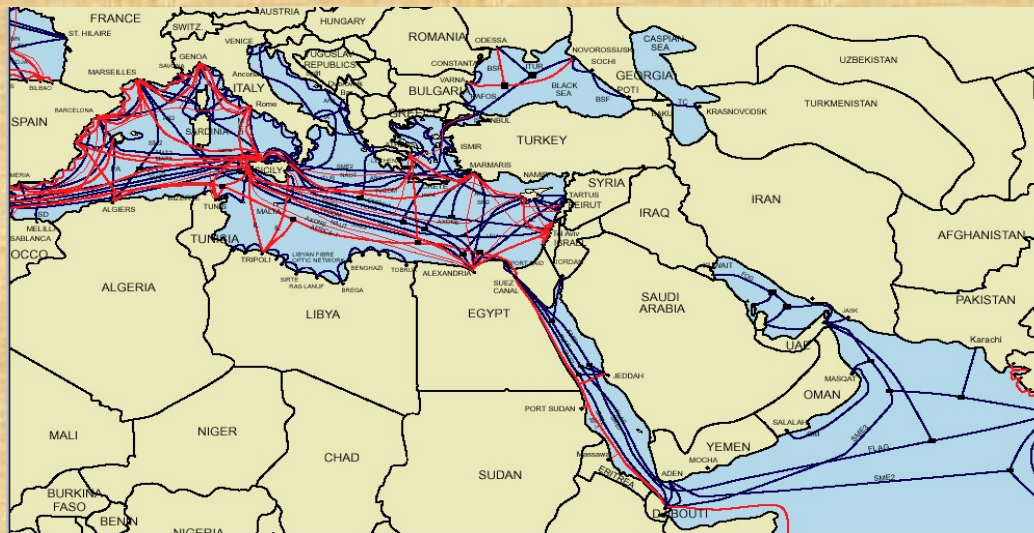
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SSO Foreign Programs

Partnering with Foreign SIGINT partners to enable access to foreign intelligence



Partnerships developed jointly with Foreign Affairs Directorate

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RAMPART A

(TS//SI//NF) Unconventional special access program leveraging Third Party partnerships:

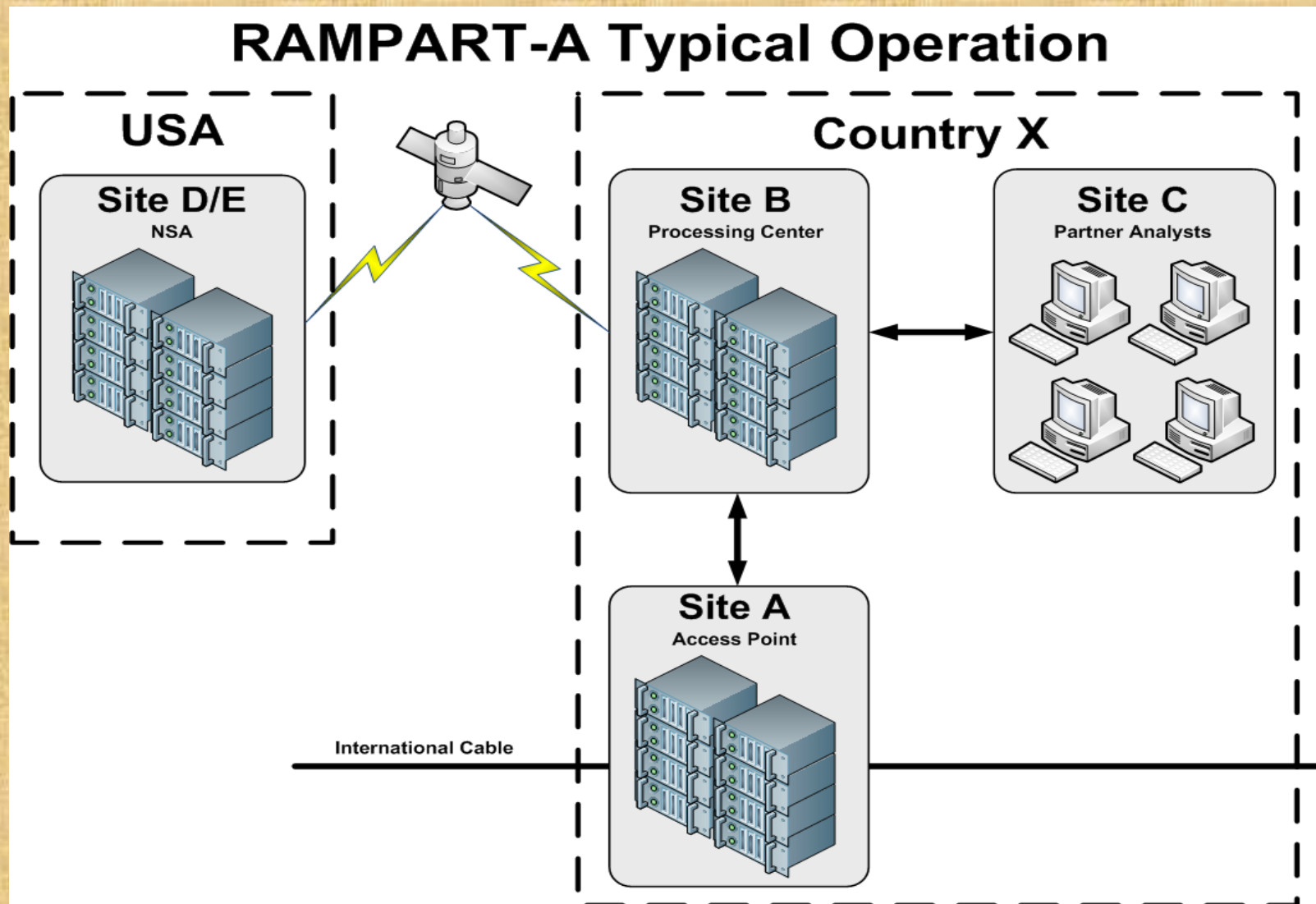
- ***High-capacity international fiber transiting major congestion points around the world***
- ***Foreign Partners provide access to cables and host U.S. equipment***
- ***U.S. provides equipment for transport, processing and analysis***
- ***No U.S. collection by Partner and No Host Country collection by U.S. – there ARE exceptions!***
- ***Shared tasking and collection***

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Typical RAM-A Configuration

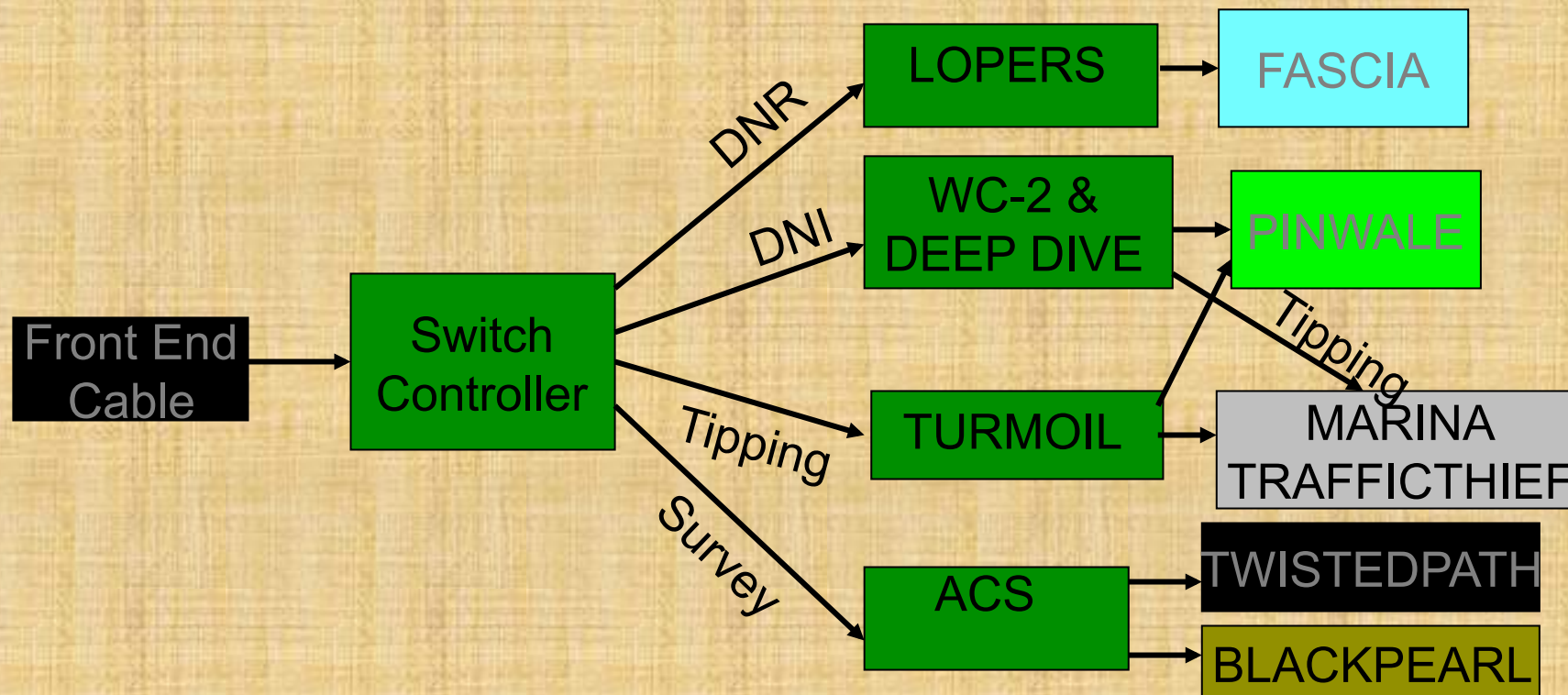


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Cable to Database



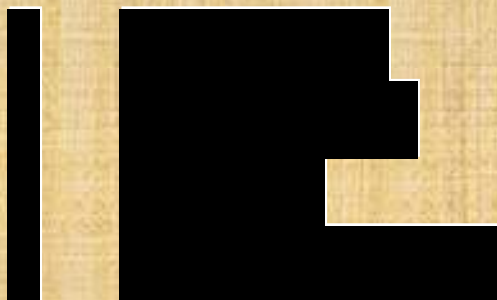
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President's Daily Brief Sources

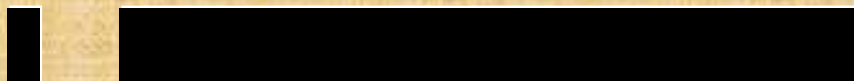
1 BLARNEY



6 FAIRVIEW



8 STORMBREW

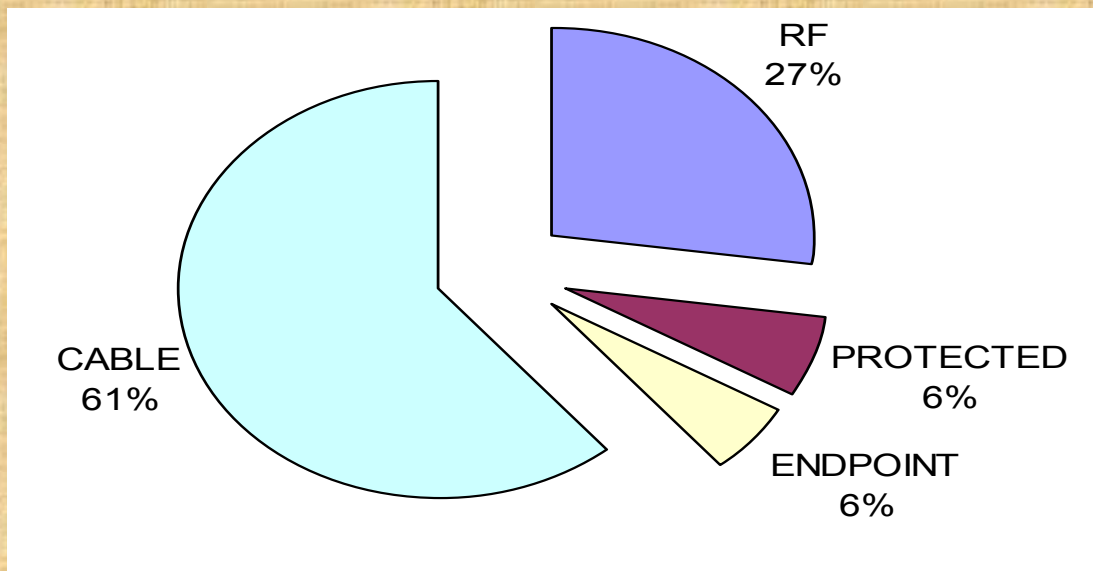


10 TAO

11 INCENSER



15 NSA Reporting of GCHQ - DS-200



CY2010 through mid-May

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2nd Party Accesses

- **DS-200** – *is NSA's reporting of GCHQ's "special source" collection*
- **DS-200B – MUSCULAR**
 - *20 Gbit TURMOIL capacity*
 - *Tasking worked cooperatively with GCHQ counterparts*
 - *IP Subnet promotion in place*

▪ [REDACTED]

▪ [REDACTED]

▪ [REDACTED]

▪ [REDACTED]

▪ [REDACTED]

▪ [REDACTED]



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MUSCULAR (DS-200B)

- Operational July 2009
- (S//REL USA,GBR) Large international access located in United Kingdom
- Four TURMOIL T16s at 2.5Gb each - total ingest 10Gb
- LPTs installed May 2010 increase ingest to 20Gb
- Tasking worked cooperatively with GCHQ counterparts
- Partner to assume total control/responsibility for systems
- IP Subnet promotion in place, VoIP in the works

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